

Attachment A **Power of Attorney to Prosecute Applications Before the USPTO**

Applicant/Patent Owner: **SpringWorks LLC** hereby states that they are the assignee of the entire right, title and interest as listed below by virtue of an assignment from the inventor(s) of the patent application/patent. The assignment was recorded in the United States Patent and Trademark Office at the Reel and Frame number listed below or for which a copy therefore is attached.

Attorney Docket No.	Application Number / Patent Number	Appl. Date/ Issued Date	Inventors	Title	Current Owner	Chain of Title	Assignment Reel/Frame	Recorded Date
43668.3	11/191,643	7/27/2005	H. Zhang M. Narasimhan R. Mullaipudi R. Demaray	Biased Pulse DC Reactive Sputtering Of Oxide Films	SpringWorks LLC	From Inventors to Synmorphix From Synmorphix to SpringWorks LLC	014766 / 0601 20134 / 0102	12/2/2003 11/19/2007
43668.4	11/100,856	4/6/2005	T. Pan R. Demaray Y. Chen Y. Xie R. Pethe	Mode Size Converter For A Planar Waveguide	SpringWorks LLC	From Inventors to Synmorphix From Synmorphix to SpringWorks LLC	020035 / 0110 20134 / 0102	10/30/2007 11/19/2007
43668.5	10/850,968	5/20/2004	R. Demaray M. Narasimhan	Transparent Conductive Oxides	SpringWorks LLC	From Inventors to Synmorphix From Synmorphix to SpringWorks LLC	014945 / 0661 20134 / 0102	8/4/2004 11/19/2007
43668.22	10/650,461	8/27/2003	D. Dawes	Optically Coupling Into Highly Uniform Waveguides	SpringWorks LLC	From Inventors to Synmorphix From Synmorphix to SpringWorks LLC	014897 / 0768 20134 / 0102	1/16/2007 11/19/2007
43668.39	11/726,972	3/22/2007	R. Demaray H. Zhang M. Narasimhan V. Milonopoulou	Energy Conversion And Storage Devices By Physical Vapor Deposition Of Titanium And Titanium Oxides And Sub-Oxides	SpringWorks LLC	From Inventors to Synmorphix From Synmorphix to SpringWorks LLC	014948 / 0097 20134 / 0102	8/5/2004 11/19/2007
43668.44	11/297,057	12/7/2005	H. Zhang R. Demaray M. Shao	Deposition Of LiCoO2	SpringWorks LLC	From Inventors to Synmorphix From Synmorphix to SpringWorks LLC	017196 / 0699 20134 / 0102	12/21/2006 11/19/2007
43668.53	11/218,652	9/2/2005	H. Zhang R. Demaray	Deposition Of Perovskite And Other Compound Ceramic Films From Dielectric Applications	SpringWorks LLC	From Inventors to Synmorphix From Synmorphix to SpringWorks LLC	016821 / 0220 20134 / 0102	11/28/2005 11/19/2007
43668.6	10/291,179 US Pat No. 7,404,877	ISSUED - 7/29/08	R. Demaray, V. Milonopoulou	Low temperature zirconia based thermal barrier layer by PVD	SpringWorks LLC	From Inventors to Synmorphix From Synmorphix to SpringWorks LLC	014756 / 0416 20134 / 0102	12/2/2003 11/19/2007

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43668.8	09/903,050 US Pat No. 6,506,289	ISSUED - 1/14/03	R. Denaray, K. Wang, R. Mullapudi, D. Stadler, H. Zhang, R. Pethe	Planar optical devices and methods for their manufacture	SpringWorks LLC	From Inventors to Symmorphix to SpringWorks LLC	012010 / 0318 201314 / 0102	07/10/2001 11/19/2007
43668.9	10/288,278 US Pat No. 6,827,826	ISSUED - 12/7/04	R. Denaray, K. Wang, R. Mullapudi, D. Stadler, H. Zhang, R. Pethe	Planar optical devices and methods for their manufacture	SpringWorks LLC	From Inventors to Symmorphix to SpringWorks LLC	012010 / 0318 201314 / 0102	07/10/2001 11/19/2007
43668.13	09/766,463 U.S. Pat No. 6,533,907	ISSUED - 3/18/03	R. Denaray, J. Shan, K. Wang, R. Mullapudi	Method of Producing amorphous silicon for hard mask and waveguide applications	SpringWorks LLC	From Inventors to Symmorphix to SpringWorks LLC	011504 / 0738 201314 / 0102	01/19/2001 11/19/2007
43668.14	09/903,081 US Pat No. 7,469,558	ISSUED - 12/30/08	R. Denaray, K. Wang, R. Mullapudi, Q. Zhu, H. Zhang, H. Ackler, J. Egermeier, R. Pethe	As-deposited planar optical waveguides with low scattering loss and methods for their manufacture	SpringWorks LLC	From Inventors to Symmorphix to SpringWorks LLC	012010 / 0752 201314 / 0102	07/10/2001 11/19/2007
43668.15	10/101,492 US Pat No. 6,884,327	ISSUED - 4/26/05	T. Pan, R. Denaray, Y. Chen, Y. Xie, R. Pethe	Mode size converter for a planar waveguide	SpringWorks LLC	From Inventors to Symmorphix to SpringWorks LLC	020035 / 0110 201314 / 0102	10/30/2007 11/19/2007
43668.17	10/101,863 US Pat No. 7,378,356	ISSUED - 5/27/08	H. Zhang, M. Narasimhan, R. Mullapudi, R. Denaray	Biased pulse DC reactive sputtering of oxide films	SpringWorks LLC	From Inventors to Symmorphix to SpringWorks LLC	014766 / 0601 201314 / 0102	12/2/2003 11/19/2007
43668.21	10/954,182 US Pat No. 7,381,657	ISSUED - 6/30/08	H. Zhang, M. Narasimhan, R. Mullapudi, R. Denaray	Biased pulse DC reactive sputtering of oxide films	SpringWorks LLC	From Inventors to Symmorphix to SpringWorks LLC	014766 / 0601 201314 / 0102	12/2/2003 11/19/2007
43668.19	11/228,834 US Pat No. 7,544,276	ISSUED - 6/9/09	H. Zhang, M. Narasimhan, R. Mullapudi, R. Denaray	Biased pulse DC reactive sputtering of oxide films	SpringWorks LLC	From Inventors to Symmorphix to SpringWorks LLC	014766 / 0601 201314 / 0102	12/2/2003 11/19/2007

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43668.20	11/228,717 U.S. Pat No. 7,413,998	ISSUED - 8/19/08	H. Zhang, M. Narasimhan, R. Nallapudi, R. Demaray	Biased pulse DC reactive sputtering of oxide films	SpringWorks LLC	From Inventors to Symmorphix From Symmorphix to SpringWorks LLC	014766 / 0601 20134 / 0102	12/2/2003 11/19/2007
43668.25	10/789,953 US Pat No. 7,205,662	ISSUED - 4/17/07	M. Narasimhan, P. Brooks, R. Demaray	Dielectric Barrier Layer Films	SpringWorks LLC	From Inventors to Symmorphix From Symmorphix to SpringWorks LLC	014948 / 0111 20134 / 0102	08/05/2004 11/19/2007
43668.32	11/228,805 US Pat No. 7,262,131	ISSUED - 8/28/07	M. Narasimhan, P. Brooks, R. Demaray	Dielectric Barrier Layer Films	SpringWorks LLC	From Inventors to Symmorphix From Symmorphix to SpringWorks LLC	014948 / 0111 20134 / 0102	08/05/2004 11/19/2007
43668.34	10/851,542 US Pat No. 7,238,628	ISSUED - 7/3/07	R. Demaray, H. Zhang, M. Narasimhan, V. Milonopoulou	Energy Conversion and Storage Devices by Physical Vapor Deposition of Titanium and Titanium Oxides and Sub-Oxides	SpringWorks LLC	From Inventors to Symmorphix From Symmorphix to SpringWorks LLC	014948 / 0097 20134 / 0102	8/5/2004 11/19/2007

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